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1: *Electrophoresis* 1992 Dec;13(12):992-1001

Related Articles, Books, Protein,
Nucleotide, LinkOut

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Human liver protein map: a reference database established by microsequencing and gel comparison.

Hochstrasser DF, Frutiger S, Paquet N, Bairoch A, Ravier F, Pasquali C, Sanchez JC, Tissot JD, Bjellqvist B, Vargas R, et al

Medicine Department, Geneva University, Switzerland.

This publication establishes a reference human liver protein map obtained with immobilized pH gradients. By microsequencing, 57 spots or 42 polypeptide chains were identified. By protein map comparison and matching (liver, red blood cell and plasma sample maps), 8 additional proteins were identified. The new polypeptides and previously known proteins are listed in a table and/or labeled on the protein map, thus providing a human liver two-dimensional gel database. This reference map can be used to identify protein spots on other samples such as rectal cancer biopsies.

MeSH Terms:

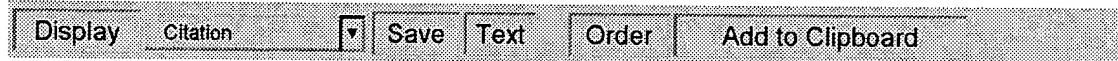
- Amino Acid Sequence
- Ampholyte Mixtures
- Blood Proteins/analysis
- Comparative Study
- Databases, Factual*
- Electrophoresis, Gel, Two-Dimensional*
- Human
- Hydrogen-Ion Concentration
- Liver/chemistry*
- Molecular Sequence Data
- Peptide Mapping/methods*
- Proteins/analysis*
- Reference Standards
- Support, Non-U.S. Gov't

Substances:

- Proteins
- Blood Proteins

◦ Ampholyte Mixtures

PMID: 1286669, UI: 93162045

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Query: gi|6782048 unnamed protein product [Homo sapiens]

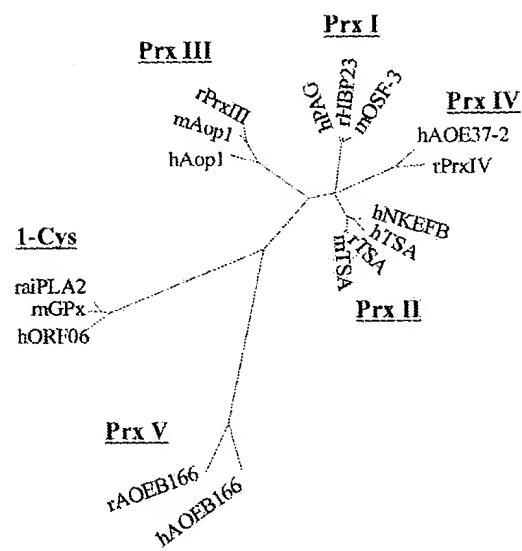
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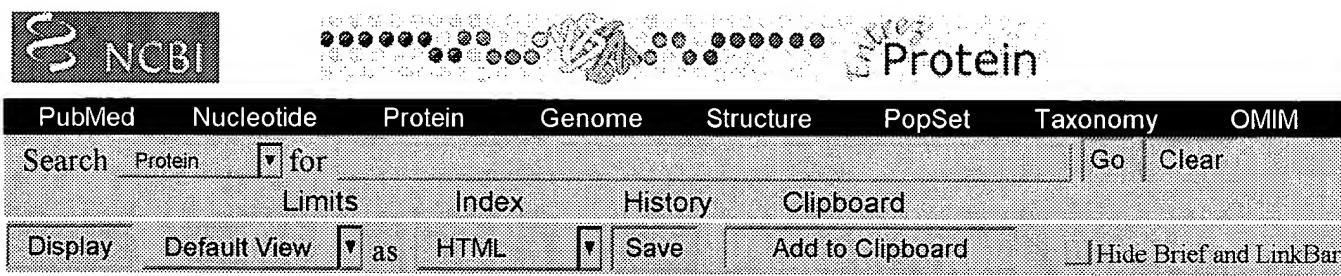
COG0678 assigned by Cognitor (2 best hits)[Best hits](#) [Common Tree](#) [Taxonomy Report](#) [3D structures](#) [CDD-Search](#) [GI list](#)**51 BLAST hits to 30 unique species Sort by taxonomy proximity**[1](#) Archaea [12](#) Bacteria [13](#) Metazoa [13](#) Fungi [12](#) Plants [0](#) Viruses [0](#) Other EukaryotaeKeep only Cut-Off **162 aa**

			SCORE	P	ACCESSION	GI	PROTEIN DESCRIPTION
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830	26	AAF03750	6103724	antioxidant	enzyme B166 [Homo sapiens]		
			822	23	AAG13453	10305338	peroxiredoxin 5 [Cercopithecus aeth
			820	26	AAF04856	6166493	thioredoxin peroxidase PMP20 [Homo
820	26	P30044	3915613	PUTATIVE PEROXISOMAL ANTIOXIDANT ENZYME (LIVER TISSUE 2			
818	23	AAG13451	10305334	peroxiredoxin 5 [Papio hamadryas]			
			767	21	AAF04855	6166491	thioredoxin peroxidase PMP20 [Mus m
767	21	AAF03751	6103726	antioxidant	enzyme B166 [Rattus norvegicus]		
767	21	P99029	3913065	PUTATIVE PEROXISOMAL ANTIOXIDANT ENZYME (LIVER TISSUE 2			
			761	21	AAG13452	10305336	peroxiredoxin 5 [Sus scrofa]
			625	21	AAF21016	6644338	peroxiredoxin V [Mus musculus]
			475	8	AAF55497	7300338	CG7217 gene product [Drosophila melanoga
			290	2	AAF94508	9655843	antioxidant, putative [Vibrio cholerae]
290	3	AAD33602	4928472	type 2 peroxiredoxin	[Brassica rapa subsp. pekinensis]		
282	3	AAD28242	4704730	peroxiredoxin TPx1	[Arabidopsis thaliana]		
281	3	AAG40130	11761654	peroxiredoxin	[Oryza sativa]		
			281	3	CAB86900	7529720	peroxiredoxin-like protein
			281	3	BAA82377	5441879	ESTs AU070372(S13446), AU075541(S035
			274	3	AAF06057	6227021	Identical to gb AF121356 peroxired
			268	3	AAD28243	4704732	peroxiredoxin TPx2 [Arabidopsis th
			257	21	BAA95057	7670411	Mus musculus peroxiredoxin V (PrxV)
			246	2	BAA17776	1652858	membrane protein [Synechocystis sp.]
			242	2	AAF41352	7226184	peroxiredoxin 2 family protein/glutaredoxin [Nej
			242	3	BAA88530	6630684	ESTs AU070430(S15424), AU082086(E1:
			237	2	AAF95778	9657228	peroxiredoxin family protein/glutaredoxi
			234	3	AAF66133	7658343	unknown protein; 13384-11892 [Arabidopsis thalia
231	4	AAB95638	2769700	peroxisomal-like protein	[Aspergillus fumigatus]		
211	2	I64154	1074445	conserved hypothetical protein	HI0572 - Haemophilus i		
			210	2	AAG37299	11612206	unknown [Sinorhizobium fredii]
208	4	CAA20911	3646447	peroxisomal	membrane protein Pmp20p, Ahpc-TSA fa mily p		
208	4	CAA05528	2598045	PMP20	[Schizosaccharomyces pombe]		
			206	2	CAA92419	1486441	unknown [Rhizobium sp.]
			205	4	AAD42074	5326864	peroxisomal membrane protei
			204	2	S39907	7469151	conserved hypothetical protein 10 - Rhodobact
			202	4	AAB41351	558080	Lipomyces kononenkoae subsp. spencermartinsiae p
202	4	A32646	83903	peroxisomal membrane protein	20K A - yeast (Candida boic		
198	2	CAA06680	3093392	ORF180	[Rhizobium etli]		
197	4	B32646	83904	peroxisomal membrane protein	20K B - yeast (Candida boic		
			196	3	AAF06060	6227024	Contains similarity to gb AF121355 peroxiredoxin
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..... 177 3 AAB71961 2462742 Unknown protein [Arabidopsis thaliana]
..... 168 2 AAC34466 3462877 unknown [Rhizobium etli]
..... 136 4 AAB67554 1256872 Ylr109wp [Saccharomyces cerevisiae]
..... 118 4 AAG23865 10946517 peroxisomal membrane protein [Coccidioides immitis]
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..... 103 3 CAA54066 471321 HvB15C [Hordeum vulgare]
..... 102 2 CAA69447 1707727 Methanobacterium orfk homolog [Sulfolobus]
..... 100 2 CAB88842 7636005 hypothetical protein SCE6.38. [Streptomyces]

B





The screenshot shows the NCBI Protein search interface. At the top, there are tabs for PubMed, Nucleotide, Protein, Genome, Structure, PopSet, Taxonomy, and OMIM. Below the tabs is a search bar with 'Search' dropdown set to 'Protein', a 'for' dropdown, and buttons for 'Go' and 'Clear'. Underneath the search bar are buttons for 'Limits', 'Index', 'History', and 'Clipboard'. Below these are buttons for 'Display' (set to 'Default View'), 'as' (set to 'HTML'), 'Save', 'Add to Clipboard', and 'Hide Brief and LinkBar'.

1: GI "6166493" [GenPept] thioredoxin peroxidase PMP2... BLink, PubMed, Related Sequences, Nuc

LOCUS AF197952_1 214 aa PRI 29-FEB-2000
 DEFINITION thioredoxin peroxidase PMP20 [Homo sapiens].
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 DBSOURCE locus AF197952 accession AF197952.1
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 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (residues 1 to 214)
 AUTHORS Zhou, Y., Kok, K.H., Chun, A.C., Wong, C.M., Wu, H.W., Lin, M.C.,
 Fung, P.C., Kung, H. and Jin, D.Y.
 TITLE Mouse peroxiredoxin V is a thioredoxin peroxidase that inhibits
 p53-induced apoptosis
 JOURNAL Biochem. Biophys. Res. Commun. 268 (3), 921-927 (2000)
 MEDLINE 20145535
 REFERENCE 2 (residues 1 to 214)
 AUTHORS Jin, D.-Y.
 TITLE Direct Submission
 JOURNAL Submitted (23-OCT-1999) Institute of Molecular Biology, The
 University of Hong Kong, 8 Sassoon Road, Hong Kong
 COMMENT Method: conceptual translation.
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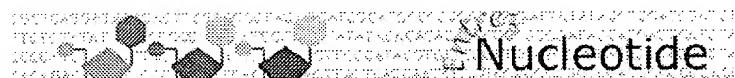
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DEFINITION unnamed protein product [Homo sapiens].
ACCESSION CAB70589
PID g6782048
VERSION CAB70589.1 GI:6782048
DBSOURCE embl locus A99097, accession [A99097.1](#)
KEYWORDS .
SOURCE human.
ORGANISM *Homo sapiens*
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (residues 1 to 162)
AUTHORS Falmagne,P., Wattiez,R., Bernard,A., Hermans,C. and Knoops,B.
TITLE Peroxisome-associated polypeptide, nucleotide sequence encoding
said polypeptide and their uses in the diagnosis and/or the
treatment of lung injuries and diseases, and of oxidative
stress-related disorders
JOURNAL Patent: WO 9909054-A 25-FEB-1999;
UNIV MONS HAINAUT (BE) ; FALMAGNE PAUL (BE) ; WATTIEZ RUDDY (BE) ;
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□ 1: GI "6782047" [GenBank]

Sequence 1 from Patent WO99...

Protein, Taxonomy, LinkOut

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ACCESSION A99097
VERSION A99097.1 GI:6782047
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ORGANISM [Homo sapiens](#)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 805)
AUTHORS Falmagne, P., Wattiez, R., Bernard, A., Hermans, C. and Knoops, B.
TITLE Peroxisome-associated polypeptide, nucleotide sequence encoding
said polypeptide and their uses in the diagnosis and/or the
treatment of lung injuries and diseases, and of oxidative
stress-related disorders
JOURNAL Patent: WO 9909054-A 1 25-FEB-1999;
UNIV MONS HAINAUT (BE) ; FALMAGNE PAUL (BE) ; WATTIEZ RUDDY (BE) ;
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UNIV LOUVAIN (BE)
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